

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appln. No: 10/603,695  
Applicant: Michael E. Dobbs et al.  
Filed: June 26, 2003  
Title: ACTIVE REMOTE SENSING USING A SIMULTANEOUS  
SPECTRAL SAMPLING TECHNIQUE  
TC/A.U.: 2878  
Examiner: Patrick J. Lee

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98 and to the duty of disclosure set forth in 37 C.F.R. § 1.56, the Examiner in charge of the above-identified application is requested to consider and make of record the references listed on the PTO/SB/08a and/or PTO/SB/08b form submitted herewith. A copy of the articles listed on the PTO/SB/08b form, are enclosed.

Although the information submitted herewith may be "material" to the Examiner's consideration of the subject application, this submission is not intended to constitute an admission that such information is "prior art" as to the claimed invention.

In accordance with 37 C.F.R. § 1.97(g), the filing of this Supplemental Information Disclosure Statement shall not be construed to mean that a search has been made.

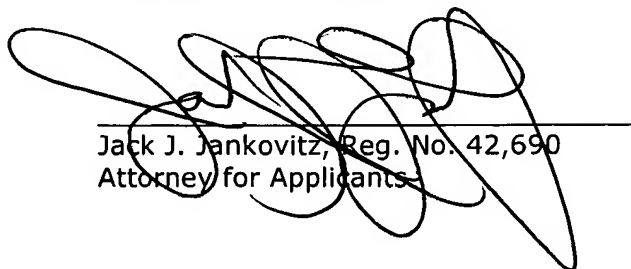
09/06/2005 MAHMED1 00000033 10603695

01 FC:1806

180.00 DP

More than three months have elapsed since the filing of the above-referenced application and a first (non-Final) Official Action has been received. No Final Action or Notice of Allowance has yet been received and it is presumed that none has yet been mailed. Accordingly, the required fee set forth in 37 C.F.R. § 1.17(p) is provided herewith.

Respectfully submitted,

  
\_\_\_\_\_  
Jack J. Jankovitz, Reg. No. 42,690  
Attorney for Applicants

JJJ/mc

Enclosures: PTO/SB/08a and PTO/SB/08b  
(4) References  
Search Report with Written Opinion  
Transmittal Form  
Fee Transmittal and Check (\$180)

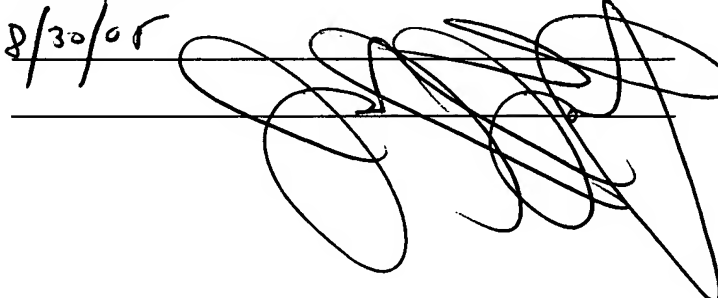
Dated: August 30, 2005

☒ P.O. Box 980  
Valley Forge, PA 19482  
(610) 407-0700

The Commissioner for Patents is hereby authorized to charge payment to Deposit Account No. **18-0350** of any fees associated with this communication.

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on:

8/30/05

  
\_\_\_\_\_

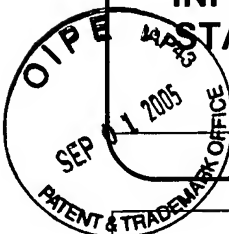
MC\_I:\ITDE\PACD\106US\IDS\_FORM3B\_FEE.DOC

*(Use as many sheets as necessary)*

**SHEET 1 of 2**

**Complete if Known**

Application Number	10/603,695
Filing Date	June 26, 2003
First Named Inventor	Michael E. Dobbs et al.
Art Unit	2878
Examiner Name	Patrick J. Lee
Attorney Docket No.	ITDE-PACD106US

[illegible][illegible]

Examiner  
Signature

Date  
Considered

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04.

<sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard St.3).

<sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

<sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

<sup>6</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*

Substitute for Form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT***(Use as many sheets as necessary)***Complete if Known**

Application Number	10/603,695
Filing Date	June 26, 2003
First Named Inventor	Michael E. Dobbs et al.
Art Unit	2878
Examiner Name	Patrick J. Lee
Attorney Docket No.	ITDE-PACD106US

**SHEET 2 of 2****NON-PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
		International Search Report and the Written Opinion of the International Searching Authority of Application No. PCT/US2004/012379 dated August 30, 2004	<input type="checkbox"/>
		I. Dubinsky et al., "Frequency-Modulation-Enhanced Remote Sensing", Applied Physics B (Lasers and Optics), October 1998, Springer-Verlag, Germany, vol. B67, No. 4, 1 October 1998, pages 481-492	<input type="checkbox"/>
		Liang-guo Wang "A H/sub 2/O(v) Sensor System for Combustion Diagnostics Using Both Direct Absorption and Frequency Modulation Spectroscopy", 1995, New York, NY, USA, IEEE, USA, October 30, 1995, pages 329-333 vol. 2	<input type="checkbox"/>
		Daniel B. Oh et al., "Frequency Modulation Multiplexing for Simultaneous Detection of Multiple Gases by Use of Wavelength Modulation Spectroscopy with Diode Lasers", Applied Optics, April 20, 1998, Optical Society of America, USA, vol. 37, No. 12, April 20, 1998, pages 2499-2501	<input type="checkbox"/>
		A. M. Bullock et al. "Measurement of Absorption Line Wing Structure by Wavelength Modulation Spectroscopy" Applied Physics Letters, American Institute of Physics., New York, US, vol. 70, No. 10, March 10, 1997, pages 1195-1197	<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>
			<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here if English language translation is attached.

The collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.  
**SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

*If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.*